OFFICIAL RECEIVED
CENTRAL FAX CENTER

JUL 21 2004

L305 0003
GNM/RAJ/raj

Paper No.:____

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Inventor(s): WALTER, Bruno

Title: **ACOUSTIC FLOW PULSING APPARATUS AND METHOD FOR
DRILL STRING**

Serial No.: 10/614258

Filed: 8 July 2003

Examiner: TSAY, Frank   Art Unit: 3672

Date: 21 July 2004

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

AMENDMENT

Introductory Comments

Responsive to the Office action mailed 28 April 2004, please amend this application as
follows:

- Amendments to the Claims are reflected in the listing of claims which begins on page
2 of this paper.

- Remarks/Arguments begin on page 8 of this paper.

08/04/2004 EKEY11   00000001 021037   10614258

01 FC:2201   43.00 DA
02 FC:2202   9.00 DA

- 1 -

CERTIFICATE OF FACSIMILE TRANSMISSION
I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office on 21 July 2004.

Christine Crawford - Assistant to Craig A. Ash

File No.:L305 0003
CAA/cc

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith for filing in regard to the patent application of:

Inventor(s):   WALTER, Bruno.
Title: ACOUSTIC FLOW PULSING APPARATUS AND METHOD FOR DRILL STRING
Serial No.:   10/614258
Filed: 8 July 2003
Examiner: TSAY, Frank   Art Unit: 3672
Date: July 21, 2004

Enclosed are:

[X]   Amendment.

[X]   The Commissioner is hereby authorized to charge the indicated fees ($52.00) or credit over-payment, to Account No. 02-1037

[X]   The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 02-1037.

CLAIMS AS AMENDED					
For	No. after amendment	No. paid for previously	Present Extra	Rate	Fee
Total Claims (>20)	21	20	1	$18.00	$ 18.00
Indep. Claims (>3)	4	3	1	$86.00	$ 86.00
Multiple Dep. Claims	0	0	0	$280.00	$ 0.00
TOTAL FEES					$ 104.00
Reduction by 50% for filing by small entity (Note 37 CFR 1.27)					$ 52.00
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					$ 52.00

PATENT APPLICATION FEE DETERMINATION RECORD
Effective January 1, 2003

Application or Docket Number: 10614258

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	19	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	19 minus 20=	*
INDEPENDENT CLAIMS	2 minus 3 =	*
MULTIPLE DEPENDENT CLAIM PRESENT		☐

* If the difference in column 1 is less than zero, enter "0" in column 2

SMALL ENTITY TYPE ☐			OTHER THAN SMALL ENTITY	
RATE	FEE	OR	RATE	FEE
BASIC FEE	375.00	OR	BASIC FEE	750.00
X$ 9=		OR	X$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL	375	OR	TOTAL	

CLAIMS AS AMENDED - PART II

AMENDMENT A

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
Total	* 21	Minus	** 20	= -1
Independent	* 5	Minus	*** 3	= 4
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

SMALL ENTITY			OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X$ 9=	9	OR	X$18=	
X42=	430	OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE	52.5	OR	TOTAL ADDIT. FEE	

AMENDMENT B

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

SMALL ENTITY			OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X$ 9=		OR	X$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

AMENDMENT C

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

SMALL ENTITY			OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X$ 9=		OR	X$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.